Well Name: Dora Taylor 3-22
Location: 1932' FNL & 970' FWL Sec. 22 T34S R26W, Meade County, KS
API No.: 15-119-21343
Field Name: McKinney
Spud Date: 7/13/2013 Drilling Completed: 7/28/2013
Bottom Hole Location: As above
Ground Level: 2323' KB Elevation: 2334'
Logged Interval: 4550' TO: 6000'
Drilling Fluid Type: Freshwater/Gel to 2991', Chemical/Gel to 6600'

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DST #1 Marmaton Novinger Zone 5443'-5485' 30"-45"-30"-60" Initial Open: Weak blow built to 1/2", Final open: No blow, No blow back during shut-in. Rec. 15' Mud, No shows oil or gas, IHP 2665#, IFP 42-68#, ISIP 68#, FFP 50-51#, FSIP 68#, FSIP 2621# BHT 120 Deg. F

DST #2 Morrow 5914'-6005' 15"-45"-30"-60" Initial Open: Weak blow built to 1 1/4", Final open: No blow, No blow back during shut-in. Rec. 65' Mud, No shows oil or gas, IHP 3004#, IFP 34-51#, ISIP 105#, FFP 58-62#, FSIP 104#, FSIP 2953# BHT 125 Deg. F

DST #3 Chester 6025'-6140' 15"-45"-30"-60" Initial Open: Weak blow built to 1/2" to 3/4", Final open: 1/4" to 1/2", No blow back during shut-in. Rec. 30' Mud, Faint gas odor, IHP 2926#, IFP 30-39#, ISIP 549#, FFP 41-46#, FSIP 250#, FSIP 2926#

COMMENTS

07/07/13 KODA Drilling set 91' of 20" Conductor Pipe. 07/13/13 MIRU Sterling Drilling Rig 2, Spud 12 1/4" Surface hole at 11:15 PM. 07/14/13 Drilling at 596'. 07/15/2013 Drilling at 626' Down 23.5 hours to replace torque converter. 07/16/13 WOC at 1329'. 07/17/2013 1971' Drilling ahead. 07/18/13 3119' Drilling ahead. 07/19/13 3980'. Drilling ahead. 07/20/13 4780' Drilling ahead. 07/21/2013 5250'. Tripping out to replace PDC bit with Button bit. 07/22/2013 5485'. TOH for DST #1. 7/23/13 5689' Drilling ahead. 7/24/13 6005' Trip out for DST #2. 7/25/13 6140' Trip out for DST #3. 7/26/13 6199'. Drilling ahead. 7/27/13 6495'. Drilling ahead. 7/28/13 6600'. RTD 6600'. Tripping in hole after logs. LDDP. Prep to plug.

Set 91' of 20" conductor pipe set at 95' GL with 9.5 yards grout. New and 8 5/8", 24# Surface casing at 1329' with 380 sacks Cement (Basic Energy Services).

Surveys: 0.75 Deg. At 1329'; 0.75 Deg. At 5250'; 0.5 Deg. At 6005'; 0.25 Deg.At 6140'; 0.25 Deg. At 6600'.

E-log Formation Tops: Heebner 4560, Toronto 4575, Lansing 'A' 4716, LKC 'H' 5068, Stark Sh 5282, Marmaton 5418, Novinger 5470, Cherokee Sh 5600, Atoka 5797, Morrow Sh 5908, Morrow Sd 5952, Chester 5998, Chester SS 6315, St. Genevieve 6380, St. Louis 6455 Note: Gamma Ray adjusted down by 4 feet to better match drilltime.

Shale: lt to med gry, silty

Limestone: lt tan, cream, med grn, tite

Shale Black: drk gry and blk, carb

Limestone: lt tn to gry, fnxln, dns

Shale Black: drk gry and blk, carb

Limestone: tn, brn, fn xln, dense

Limestone: lt tn, crm, med grn, tite

Shale: dk gry-med gry, slty

Limestone: lt tn, off wht, fn grn, tite, sparry calcite

tn, crm, fn xln, well cmtd, tite

Shale: med gry-dk gry, tr py

Limestone: lt tn, off wh, med gran, med xln, tite

lt tn, off wh, med grn, gd inter grn por, ns

tn, gry, med grn, well cmtd

tn, gry, fn grn, shly, tite

lt tn, off wh, mxln, sparry

lt tn, off wh, mxln, sparry

lt tn, wh, fn grn, w/ cht, wh op

lt tn, gry, off wh, foss, med grn

lt tn, fn grn, foss, sparry

wh, lt gry, fn xln, w/ sh, dk, gry

lt tn, crs grn, foss, algal, por, ns

tn, fn grn, tite, wh chky, w/ sh drk gry

lt gry-tn, mott, med grn, w/ sh, gry shards

tn-gry mott, med grn, shale prtngs, w/ gry sh

tn-brn, gry-brn, med grn

wh, lt gry, fnxln, w/sh, gry, lt gry

wh, lt gry, f-med grn, sparry, w/ gry sh

lt tn-gry, fnxln, fngrn, w/ ch, wh op

Limestone with Shale Stringers: lt gry, tan brn, fn-med grn, w/ sh strngrs, dk gry

Shale Black: drk brn, drk gry, blk, fiss, carb

Limestone: tn and gry mott, med grn, foss, dense

tn gry, foss, poor por, ns

Shale Black: drk brn, drk gry, blk, fiss, carb

Limestone: Drk gry, brn, f-med grn, foss, tite

Shale Black

Limestone: grn-brn, med grn, tite

Shale: gry, fiss

Limestone: lt tn-pnk, med to crs grn, por, ns

tn-lt brn, fn-med grn, dense

Shale and Limestone Interbeds: drk gry, brn, w/ sh blk

Shale Black

Limestone: lt tn to off wh, fn-med grn, foss, tr oolitic, no stn, sli fluor, not cut, rim stain in drop plate, tr gas bubbles

Shale

Limestone: lt tn, brn, fnxln, fn grn, occ foss, nvp

Shale Black: blk, drk brn.

Limestone: off wh, tn, fn xln, tr foss

Shale Black: drk brn, blk, fiss

Limestone: lt tn, fn-med xln, occ foss, dns

Shale and Limestone Interbeds: lt gry, gry, fiss, w/ lms, tn-lt brn, fn-med grn, dense

Shale: drk gry, fiss

Limestone and Shale Interbeds: tn, brn, fnxl, shly w/ sh interbeds, gry, dk gry

Shale: med gry, lt gry, fiss

Limestone and Shale Interbeds: tn, lt brn, fn xln, foss, dense

Shale and Limestone Interbeds: gry, lt gry, fiss w/lms, tn, brn, v fn xln, dense

Shale and Limestone Interbeds: tn brn, fn grn, fn xln, w/ sh, med gry

Shale: gry, lt gry, fiss

Limestone and Shale Interbeds: tn, med brn, occ foss, well cmtd

Silty Shale: lt-med gry, silty, w/ gry siltstone, w/ lms, tn, brn, occ foss, dense

Limestone: brn, fnxln, dns, w/ cht, drk gry, op

Shale: lt gry, gry, brn, slty,

Limestone with fossils: gry, brn, grain supported fossil mat, dense

Sand: wh, fn grn, sub-ang, clr qtz ss, glauc, Ca cmt, tight, sli brt yel fluor, no sho oil, no cut

Limestone with fossils: gry, brn, grain supported fossil mat, dense

Shale and Limestone Interbeds: gry and brn sh, with lms, brn, grn sup foss mat, tite cmt

Shale and Limestone Interbeds: drk gry, gr w/ lms, tn-brn-gry mott, crs foss mat, grn support

Limestone and Shale Interbeds: tn-brn-gry mott, crs foss mat, grn support, w/ sh, gry, dk gry, fiss

Shale and Limestone Interbeds: drk gry, med gry, fiss, w/ lms, tn-gry, crs foss mat, well cmtd

Limestone with fossils: tn, off-wh, med-crs grn foss mat, chky, tr inter grn por

Shale and Limestone Interbeds: gry, drk gry, drn, shards, w/ lms, brn, crs foss mat, well cmtd

Limestone: tn, brn, v crs foss mat, fn xln, well cmtd

Shale: lt gry, gry, fiss

Limestone: tn, off wh, gry, lrg foss mat, well cmtd, tite

Limestone: tn-gry, crs grn foss mat, we;; cmtd, dense

Shale and Limestone Interbeds: gry, drk gry and grn sh, w/ lmst, tn-gry, crs foss mat, well cmtd, dense

Sand and Silt: lt grn-gry, v fn grn, siub-ang, well cmtd, no vis por, no stn, no show

Limestone and Shale Interbeds: lt-med gry, shly, crs foss mat, well cmtd

lt gry, vfn grn, sandy, dense

Sandy Limestone: lt gry, vfn grn, sandy, dense

Shale: med gry, lt gry, grn, fiss

Sandy Limestone: lt gry, vfn grn, sandy, dense

Limestone: lt gry, v fn grn sand, scat ool, dense

Limestone: lt gry, tn, less sand, tr ool, dense

Shale Black

Limestone: lt gry, v fn gr, sandy, few oolites, dense

Limestone: lt gry, less sand, fn med grn foss mat, well cnmtd